Methods of Spectroscopic Investigation of Catalytic S07/48-22-9-36/40 Transform ions on Metal Films

There are 2 figures, 1 table, and 3 references, 1 of which is Soviet.

ASSOCIATION:

Laboratoriya molekulyarnoy spektroskopii Khimicheskogo fakul'teta Moskovskogo gos. universiteta im.M.V.Lomonosova (Laboratory of Molecular Spectroscopy at the Chemistry Department of the Moscow State University imeni M.V.

Lomonosov)

Card 4/4

SOV/20-121-3-29/47 , 5(4) Gryaznev, V. M., Yagodovskiy, V. D., AUTHORS: Bogomolinyy, A. M., Kho Dyu-Uk The Spectroscopic Investigation of the Adsorption and of the Catalytic Conversion of Cyclohexadiene on Transparent Films of TITLE: Palladium (Spektroskopicheskoye izucheniye adsorbtsil i kataliticheskogo prevrashcheniya tsiklogeksadiyena na prozrachnykh plenkakh palladiya) PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 3, pp 499-502 (USSR) First, some previous papers concerning this subject are disoussed in a few lines. It was lesirable to work out a method ABSTRACT: for spectroscopic investigation and the catalytic conversions on metal layers with a given optical density. These metal layers should, if possible, be free from foreign gases and vapors. Palladium with a thickness of ~100 Å was sublimated in a vacuum on the windows of an optical cell. These films have a noticeable catalytic activity even at rcom temperature. The absorption spectrum of the cyclohexadiene-1,3 vapors were replaced already after some minutes by the characteristic absorption bands of Card 1/3

The Spectr scopic Investigation of the Adscrption SOV/20-121-3-29/47 and of the Catalytic Conversion of Cyclohexadiene on Transparent Films of Palladium

benzene vapors. This is an argument in favor of the practically total completion of the reaction 206H₈ ~ C₆H₆ + C₆H₁₀. Palladium films with a thickness of ~100 Å on fluorite windows of the cell (which was used for investigations in the infrared part of the spectrum) had a less intensive catalytic activity. The absorption spectra of cyclohexadiene are demonstrated in a number of diagrams. Palladium films which dimished the light intensity passing through (at 2000 cm⁻¹) to 25 % of the initial one were laid on the windows of both cells. Palladium has no absorption bands in this spectral part. A further diagram demonstrates the absorption spectra for a film which absorbed 30 % of the radiation intensity of the frequency cm⁻¹. Absorption at the frequency of 3050 cm⁻¹ increases when the time of contact of the cyclohexadiene vapors with the palladium films increases. The intensity of the absorption bands of cyclohexadiene is slightly diminished. Extraordinarily thin palladium films on fluorite therefore also have a catalytic activity with respect to the reaction 2C₆H₈ = C₆H₆ + C₆H₁₀. There is no band of 3050 cm⁻¹ in the

Card 2/3

The Spectroscopic Investigation of the Adsorption and SOV/20-121-3-29/47 of the Catalytic Conversion of Cyclohexadiene on Transparent Films of Palladium

spectrum of strongly absorbed cyclohexadiene. Therefore, there are no vibrations of the bonds C - H of the groups C - H in the spectrum of cyclohexadiene strongly absorbed on palladium. A similar result was found also for very thin palladium films of rock-salt. In this case, also the band 3050 cm⁻¹ was found. The spectra of strongly absorbed cyclohexadiene and the spectra of the vapors (for the pressures 12, 30 and 50 mm) have similar frequencies. The authors thank Professor V. M. Tarevskiy for his help and for discussing the results. There are 2 figures and 8 references, 2 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED: April 24, 1958, by A. A. Balandin, Academician

SUBMITTED: April 11, 1958

Card 3/3

'5(4)
AUTHOR: Yagodovskiy, V. D.

307/20-122-3-32/57

TITLE:

The Investigation of the Adsorption of Vapors of Benzene on Films of Palladium (Izucheniye adsorbtsii parov benzola na

plenkakh palladiya)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 3, pp 437-440

(USSR)

ABSTRACT:

According to the results of a previous paper (Ref 1), films of palladium produced by sublimation in a high vacuum have a catalytic activity with respect to the redistribution of hydrogen in cyclohexadiene-1,3. For the investigation of the kinetics of this reaction, it was necessary to investigate the adsorption of one of its components - benzene - on palladium films. For the investigation of this adsorption the method of flowing-in (metod natekaniya) was used. The carrying out of the experiments is discussed. The kinetics of the adsorption did not complicate the finding of the isotherms. The adsorbed quantity was calculated from the difference of the flow velocities measured before and after application of the palladium film to the walls of the ad-

Card 1/3

SOV/20-122-3-32/57

The Investigation of the Adsorption of Vapors of Benzene on Films of Palladium

sorption container. The adsorption of benzene vapors on the glass parts of the apparatus was noticeable, and this adsorption was also determined in an independent manner according to the method suggested by N. N. Kavtaradze (Ref 4). This method is discussed in a few lines. The isotherms of the adsorption of benzene vapors were found at the temperatures of 20 and 79°. A desorption occurs only at higher temperatures of the film ($\sim 250^{\circ}$). For all the investigated palladium films, the share of the benzene firmly adsorbed on the surface at 20°, amounts to $\sim 75-80\%$ of the total quantity of the adsorbed matter in the pressure interval

1.10⁻² - 2,6.10⁻² torr. At pressures below 5.10⁻³ torr, the quantity of the firmly adsorbed matter depends on the pressure. For higher pressures, this dependence is less distinct. A surface, on which benzene is firmly adsorbed seems to be inhomogeneous and to consist of regions of 3 different sorts. The character of the inhomogeneity of the surface only slightly depends on thermal treatment. In the coordinates of the BET equation, broken lines consisting of 2 rectilinear parts are found. The isotherm of the total absorption of benzene at 79° satisfies the BET equation and the Langmuir

Card 2/3

The Investigation of the Adsorption of Varors of Benzene on Films of Palla-

(Lengmyur) equation and it has no rupture in the coordinates of these equations. In order to determine the area of the sublimated palladium films and their dependence on the sintering, the adsorption of crypton at -195° was investigated. The surface of the palladium film before and after thermal treatment is 13 and 10 times, respectively, greater than the geometric surface. Palladium films are adsorbents with wide pores. Finally, the isotherms of the reversible adsorption of benzene vapors are discussed. The author thanks N. N. Kavtaradze for useful advice and also his chief V. M. Gryaznov for discussing the results. There are 3 figures, 2 tables, and 8 references, 6 of which are Soviet.

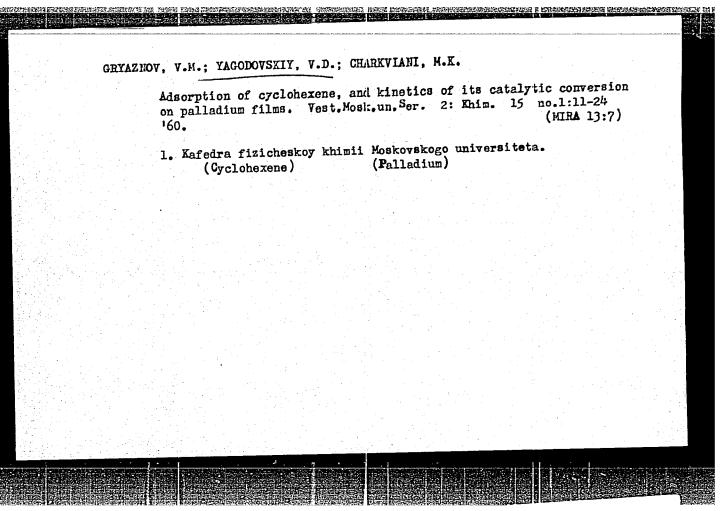
PRESENTED:

May 14, 1958, by M. M. Dubinin, Academician

SUBMITTED:

May 5, 1958

Card 3/3



s/020/60/132/05/44/069 B004/B011

5.1190 AUTHORS:

Gryaznov, V. M., Shimulis, V. I., Yagodovskiy, V. D.

TITLE:

Influence of Adsorption of Benzene Vapor on the Electrical Conductivity of Transparent Platinum Films of Various

Surface Density

Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 5, PERIODICAL:

pp. 1132-1135

TEXT: The paper under review was submitted to the Konferentsiya po organicheskomu katalizu (Conference on Organic Catalysis), Moscow, November 1959. The authors investigated the influence of adsorption of benzene vapor at 20°C on the electrical conductivity of platinum films that were prepared by evaporating metals at 1.10-7 torr onto the walls of a glass cell. The benzene vapor was led through at a constant rate of (3.8 ± 0.3).10 14 molecules per minute. The conductivity of all films dropped with rising stable adsorption of the benzene vapor. Fig. 1 shows, however, that the films behaved differently depending on their thickness

Card 1/3

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001961820002-2"

Influence of Adsorption of Benzene Vapor on the S/020/60/132/05/44/069
Electrical Conductivity of Transparent Platinum B004/B011
Films of Various Surface Density

(10-50 A). In order to test the dependence of the conductivity of differently dense films on the amount of stably adsorbed benzene, experiments were conducted the results of which are given in Table 1. The authors found that the structure of the films is greatly dependent on difficultly controllable circumstances in their production. At any rate, a linear segment is shown for each film in the diagram; conductivity ... number of adsorbed C6H6 molecules. The authors assume that the linear dependence reproduces only average values, and that at 20°C the benzene adsorption takes place in centers with different adsorption potential. They conducted experiments in which the contact wires were connected only to the upper part of the platinum film, while the benzene vapor was let into the cell either from top or from bottom (Fig. 3). The authors conclude from the results obtained that in the sections of the film where benzene is introduced there occurs both a stable and a reversible adsorption before the stable adsorption begins at the remoter film sections, and later there occurs a rearrangement of the adsorbed molecules. Under experimental conditions, the rearrangement required about 10 minutes.

card 2/3

Influence of Adsorption of Benzene Vapor on the S/020/60/132/05/44/069 Electrical Conductivity of Transparent Platinum B004/B011 Films of Various Surface Density

There are 3 figures, 1 table, and 11 references: 3 Soviet, 1 Belgian, 1 British, and 6 German.

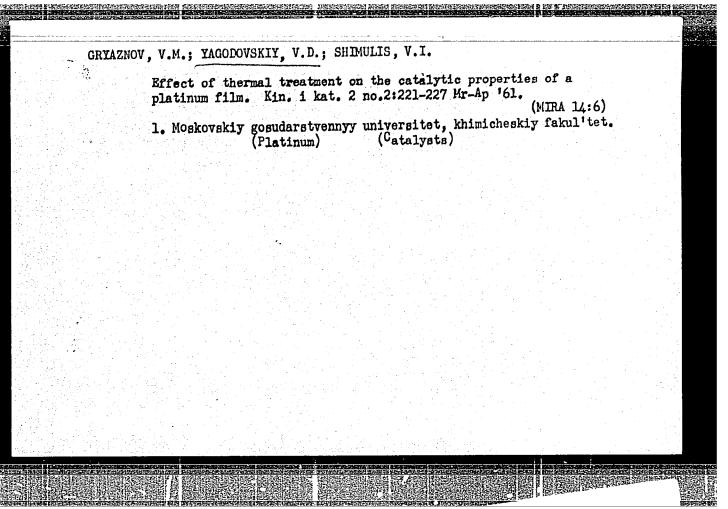
ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED: February 4, 1960, by M. M. Dubinin, Academician

SUBMITTED: January 30, 1960

W

Card 3/3



20358

5/020/61/136/005/016/032 B103/B208

5-1190

Gryaznov, V. M., Shimulis, V. I., and Yagodovskiy, V. D. 2209 1208 1274

AUTHORS:

Dependence of catalytic properties of metals on the degree of approach of their surface state to equilibrium

TITLE:

Doklady Akademii nauk SSSR, v. 136, no. 5, 1961, 1086-1089

TEXT: In the introduction, the authors discuss the thermodynamic conditions of equilibrium of the active centers with the crystal lattice conditions of equilibrium of the active centers with the crystal lattic in metal catalysts, basing on the data of 0. M. Poltorak, Refs. 4, 5; and Refs. 1, 3, 6. From their own studies and these data they came to the conclusion that a study of the kinetics of catalytic reactions in the conclusion that a study of the kinetics of catalytic reactions. PERIODICAL: and Reis. 1, 2, 0. From their own statutes and theorem and the conclusion that a study of the kinetics of catalytic reactions in a wide temperature range permits conclusions as to the degree of equilibrium attained between the active centers and the crystal lattice of the catalystember influence of the active centers and the crystal lattice of the catalystember influence of the catalystemb The influence of thermal treatment upon activity and selective effect The influence of thermal treatment upon activity and selective effect of the catalyst may be explained on the basis of these data. If the assumptions of the authors are correct, the afore-mentioned kinetics may be used to clarify the influence of temperature and preceding thermal be used to clarify the influence of temperature and preceding thermal Particularly, at temperatures which do not give rise to an treatment.

card 1/4

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001961820002-2

20358 S/020/61/136/005/016/032 B103/B208

Dependence of catalytic properties ..

equilibrium concentration of the active centers, the degree of approach to this concentration must be mainly dependent on the cooling rate of the catalyst at elevated temperature. After quick cooling (quenching) of the catalyst the concentration of the active centers will deviate from equilibrium concentration more strongly than after slow cooling. In the case of catalytic activity of atomic structures consisting of an unequal quantity of atoms, the rates of establishing equilibrium will differ with increasing temperature; the activation energy of this process will increase from simple centers to more complicated ones. In this way, first the equilibrium concentrations of the simpler centers will be attained, and then those of the more complicated ones. The selective effect of the catalyst depends on this changed concentration of different centers. The expected effects were confirmed by the authors' experiments. Cyclohexene was dehydrogenated to benzene on a platinum film heated only up to 500°C. On a platinum film heated to 700°C in high vacuum the conversion of cyclohexene sets in only beyond 450°C, giving cyclohexadiene-1,3. Therefrom, the authors conclude that dehydrogenation to benzene takes place on more complicated centers which are less stable

Card 2/4

20358

s/020/61/136/005/016/032 B103/B208

Dependence of catalytic properties ...

in thermodynamic respects up to 700°C, than those yielding cyclohexadiene. The authors conclude from the fact that these more complicated centers are conserved at 500°C that the activation energy of their destruction is high. It was shown in two experimental series that the activation energy of cyclohexadiene formation between 520 and 600°C is, accordingly, 60 kcal/mole. At lower temperatures, the activity of the catalyst decreased. In the third experimental series it was 60 kcal/mole in the entire range of 450-600°C. This indicates that in this case the equilibrium concentration was attained. After quenching the film (cooling from 700 to 460°C within 4 min) the activation energy dropped to 26 kcal/mole, while the activity of the film rapidly increased. On the other hand, these values remained unchanged in the range of higher temperatures. The authors point out that the difference of the activation energies obtained, 60 - 26 = 34 kcal/mole, was the same as in the isomerization of allyl benzene on platinum films (Ref. 1). The authors assume therefore that the two reactions proceed on active centers in an equilibrium of the same type. If the centers out of equilibrium which are formed after quenching or in the course of the synthesis of the catalyst are of the

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20358 S/020/61/136/005/016/032 B103/B208

Dependence of catalytic properties ...

same type as those being in equilibrium with the lattice of the catalyst, the formation heat of the latter may be determined by formula (8) (Ref. 2) from the difference of the activation energies obtained on the two types of centers (in equilibrium and out of equilibrium). Finally, the authors give the data obtained by other scientists (N. D. Zelinskiy and G. S. Pavlov, Ref. 8; B. V. Yerofeyev and N. V. Nikiforova, Ref. 9), which confirm their own results. There are 11 references: 9 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION:

Moskovskiy gosudarstvemnyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

PRESENTED:

September 17, 1960, by A. A. Balandin, Academician

SUBMITTED:

September 16, 1960

Card 4/4

GRYAZNOV, V.M.; YAGODOVSKIY, V.D.; SAVEL'YEVA, Ye.A.; SHIMULIS, V.I.

Different catalytic activities of platinum and palladium in cyclohexene and cyclohexadiene conversions. Kin.i kat. 3 no.1:99-102 '62. (MIRA 15:3)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, khimicheskiy fakul'tet. (Cyclohexadiene) (Catalysis)

GRYAZNOV, V.M.; YAGODOVSKIY, V.D.

Mechanism of hydrogen redistribution in cyclohexene and 1,3-cyclohexadiene over palladium based on kinetic data. Kin. 1 kat. 4 no.3:404-408 My-Je '63. (MIRA 16:7)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, khimicheskiy fakul'tet. (Hydrogene) (Cyclohexene) (Paladium catalysts)

YAGODOVSKIY, V.D.; GRYAZNOV, V.M.; SAVEL'YEVA, Ye.A.

Kinetics of 1,3-cyclohexadiene dehydrogenation on platinum
films in a wide range of temperatures. Kin.i kat. 4 no.5:
746-752 S-0 '63. (MIRA 16:12)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova,
khimicheskiy fakul'tet.

DREVING, Vladimir Petrovich; KALASHNIKOV, Yaroslav Alekseyevich;
YAGODOVSKIY, V.D., rad.

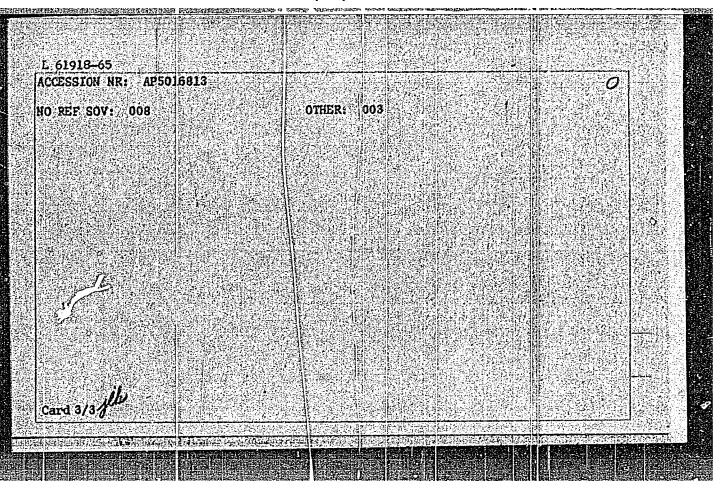
[Phase rule with a presentation of the elements of thermodynamics] Pravilo faz s izlozheniem osnov termodinamiki.
Izd.2., perer. i dop. Moskva, Izd-vo Mosk., 1964.
454 p. (MIRA 17:6)

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YAZNOV, V. M.; SHIMULIS, V. I.; YAGODOVSKIY, V. D.	de san de				
"About mechanism of catalytic conversions and strong adsorption of unsaturated cyclic hydrocarbons on platinum and palladium."					
report submitted to 3rd Intl Cong on Catalysis, Amsterdam, 20-25 Jul 64.					
Patrice Lumimba Peoples' Friendship Univ, Moscow.					
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AUTHOR: Adamek, Ya.; Ya	agodovskiy, V. D.; G	ryaznov, V. M.		
TITLE: Adsorption of kn	mypton on thermally	treated platinum films		
SOURCE: Kinetika i kata	7-1 31/2 v. 6 no. 3. 1	965. 486-492	6	
在1997年中,在美国的特别的企业的企业的企业		2000年1月1日至日本3年1月1日日本20		
TOPIC TAGS: adsorption,				主題
ABSTRACT: Adsorption of	E krypton at -195°C	was studied on two pla	tinum film samples	
which were prepared by b 1000-7400C range. Both	nign vacuum evaporat film samples were r	epeatedly thermally tr	eated for 10 min.	5
at 5·10 ⁷ mm Hg. The fir rex glass cylinder. Eff	rst film sample was	prepared by evaporatio	n of Pt onto a py-	
ing to the krypton adsor	option isotherms at	-195°C the increase of	temperature of	
thermal pretreatment (from take-up and, thus, o	rom 100° to 630°C) r	esults in a substantia area. The ^l reciproca	l increase of kryp- l (where n is a	
		n	:	
constant in the Fraundli	ich isotherm equatio	n) decreased with pret	rearment tempera-	
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Card 1/3				

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ACCESSION NR: AP5016813			133
ture and reached a minimum at	: 630°F. This indicates that 1	the higher the pretreat-	
the recotor	the decline in surface innomos	Seller CA. The Second Fram	
	cation of Pt onto a quartz base troms. In this case the increa	TOTTECTING CHTCHICON	
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The transplanting on Dr. Film on t	t film on quartz is more compl.	f. Off different cue cuerman	3.00 m
of adsorption on Pt film on p treatment resulted in an incr	rease of the surface homogeneical curface area after thermal	ty. For both Pt film treatment was partially	32
of adsorption on Pt film on p treatment resulted in an incr samples, the increase of meta	rease of the surface homogeneical surface area after thermal	ty. For both Pt film treatment was partially seffect is explained in	3.42
of adsorption on Pt film on p treatment resulted in an incr samples, the increase of meta lost when samples were cooled	rease of the surface homogeneical surface area after thermal d below room temperature. This	ty. For both Pt film treatment was partially seffect is explained in e of surface microdefects	
of adsorption on Pt film on p treatment resulted in an increase of meta- lost when samples were cooled terms of competing processes	rease of the surface homogeneical surface area after thermal delow room temperature. This of formation and disappearances apply and V. I. Shimulis for particular par	ty. For both Pt film treatment was partially seffect is explained in e of surface microdefects	
of adsorption on Pt film on particular treatment resulted in an increase of metalost when samples were couled terms of competing processes "The authors thank E. V. Khroof this work." Orig. art. he	rease of the surface homogeneical surface area after thermal d below room temperature. This of formation and disappearance apov and V. I. Shimulis for pages: 1. table, 4 figures.	ty. For both Pt film treatment was partially seffect is explained in e of surface microdefects rticipation in discussion	
of adsorption on Pt film on particular treatment resulted in an increase of metalost when samples were cooled terms of competing processes "The authors thank E. V. Khrof this work." Orig. art. he	rease of the surface homogeneical surface area after thermal delow room temperature. This of formation and disappearance apov and V. I. Shimulis for paras: 1 table, 4 figures.	ty. For both Pt film treatment was partially seffect is explained in e of surface microdefects rticipation in discussion Moscow (Friendship Uni-	
of adsorption on Pt film on particular treatment resulted in an increase of metalost when samples were cooled terms of competing processes "The authors thank E. V. Khrof this work." Orig. art. he	rease of the surface homogeneical surface area after thermal delow room temperature. This of formation and disappearances apply and V. I. Shimulis for particular par	ty. For both Pt film treatment was partially seffect is explained in e of surface microdefects rticipation in discussion Moscow (Friendship Unisity, ChSSR)	
of adsorption on Pt film on particular treatment resulted in an increase of metalost when samples were cooled terms of competing processes "The authors thank E. V. Khrof this work." Orig. art. has ASSOCIATION: Universited driversity); Karlov universitet	rease of the surface homogeneical surface area after thermal delow room temperature. This of formation and disappearance apov and V. I. Shimulis for paras: 1 table, 4 figures.	ty. For both Pt film treatment was partially seffect is explained in e of surface microdefects rticipation in discussion Moscow (Friendship Uni-	
of adsorption on Pt film on particular treatment resulted in an increase of metalost when samples were cooled terms of competing processes "The authors thank E. V. Khrof this work." Orig. art. he	rease of the surface homogeneical surface area after thermal d below room temperature. This of formation and disappearance apov and V. I. Shimulis for pass: 1. table, 4 figures. uzhby narodov im. P. Lumumby, Prague, ChSSR (Karlov Univer	ty. For both Pt film treatment was partially seffect is explained in e of surface microdefects rticipation in discussion Moscow (Friendship Unisity, ChSSR)	

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820002-2



ADAMEK, Ya.; YAGODOVSKIY, V.D.; GRYAZNOV, V.M.

Adsorption of crypton on thermally treated platinum films. Kin.; kat. 6 no.34.86-492 My-18 165. (MIRA 18:10)

1. Universitet druzhby narodov imeni Lumumbe Moskva i Kerlov universitet, Praga, Chekhoslovatskaya Sotsialisticheskaya Respublika.

ACC NR: AP7006236

SOURCE CODE: UR/0076/67/041/001/0164/0169

AUTHOR: Yagodovskiy V. D.; Portil'ya, M.

ORG: Peoples' Friendship University im. Patrice Lumumba (Universitet druzhby narodov)

TITLE: Effect of adsorption of amnonia on the resistance temperature coefficient of gold films

SOURCE: Zhurnal fizicheskoy khimii, v. 41, no. 1, 1967, 164-169

TOPIC TAGS: ammonia, adsorption, gold, metal film, work function, electric resis-

ABSTRACT: The work function ϕ of gold films (deposited on pyrex glass) before and after adsorption of ammonia was determined by measuring the electrical resistance of the films in the range of 10 to -10 °C. ϕ represents the work associated with the emergence of an electron from the notal granule to the surface of the dielectric (glass). The results were treated by using the equation

 $log (rT) = log A + \phi/2.3 kT$

where A is a constant. In all cases, before and after ausorption, the dependence of log (rT) on 1/T was linear, indicating that the films had a granular structure. A

Card 1/2

UDC: 541.183

ACC NR: AP7006236

strong adsorption of ammonia was found to decrease the work function. Reversibly adsorbed molecules are thought to interact with the layer of strongly adsorbed molecules in such a way as to decrease the positive charge at the surface of the metal granules, and this leads to an increase of the work function. Taking into consideration the two-dimensional mobility of reversibly adsorbed ammonia molecules, one can postulate that they are able to move from one metal granule to the next, and also to interact with strongly adsorbed ammonia molecules localized in the intergranular portions of the glass surface. Orig. art. has: 3 figures and 3 formulas.

SUB CODE: 07/ SUEM DATE: none/ ORIG REF: 007/ OTH REF: 007

Card 2/2

YAGODOVSKIY, V.S. (Moskva) Parathyroidal osteodystrophy associated with exyphilous adenoma of an ectopic parathyroid gland. Probl. endok. 1 gorm. 9 no.3:106-109 My-Je '63. (MIRA 17:1) 1. Iz patologoanatomicheskogo otdeleniya (zav. - prof. T.P. Vinogradova) TSentral'nogo instituta travmatologii i ortopedii (dir. - deystvitel'nyy ohlen AMN SSSR prof. N.N. Priorov [deceased]).

YAGODOVSKIY, V.S. (Moskva, Metrostroyevskaya ul., 17/15,kv.33)

Case of a mixed connective tissue tumor of the hip (so-called mesenchymoma). Vop. onk. 7 no. 4:96-100 '61. (MIRA 14:4)

1. Iz patologoanatomicheskogo otdeleniya (zav. - zasluzhennyy deyatel' nauki prof. T.P. Vinogradova) TSentrel'nogo instituta traymatologii i ortopadii (dir. - deystvitel'nyy chlen AMN SSSR prof. N.N. Privrov).

(HIP JOINT—DISEASES) (CONNECTIVE TISSUES—TUMORS)

CHUMAKOV, A. A.; YAGODOVSKIY, V. S. (Moskva)

Hyperparathyroidism in combination with multiple adenomatoses of the endocrine glands. Arkh. pat. no.8:76-80 '61.

(MIRA 15:4)

1. Iz patologoanatomicheskogo otdeleniya (zav. - deystvitel'nyy chlen AMN SSSR prof. I. V. Davydovskiy) bol'nitsy No. 28 imeni Medsantrud (glav. vrach A. P. Timofeyeva)

(PARATHYROID GLANDS-DISEASES) (ENDOCRINE GLANDS-TUMORS) (ADENOMA)

Recurrences of osteoblastoclastomas of the bones in the soft tissues. Arkh. pat. no.12:39-44 '63. (MIRA 17:11)

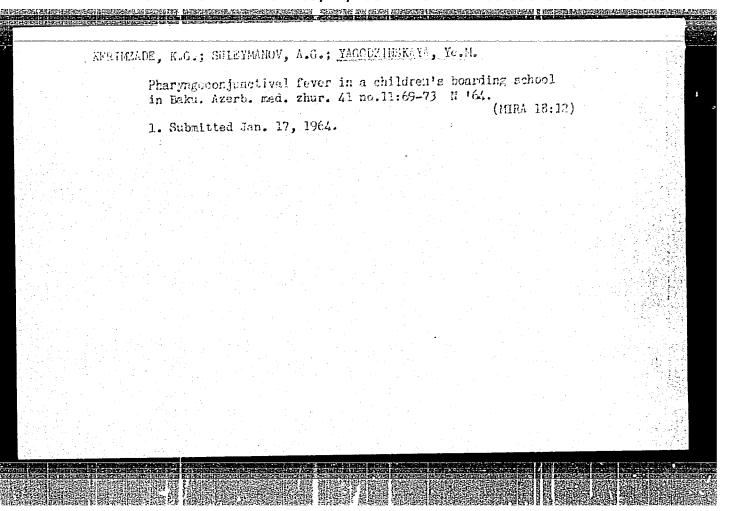
1. Iz otdeleniya kostnoy patologii (zav. - prof. V.Ya. Shlapoberskiy) TSentral'nogo instituta travmatologii i ortopedii (dir. - prof. M.V. Volkov).

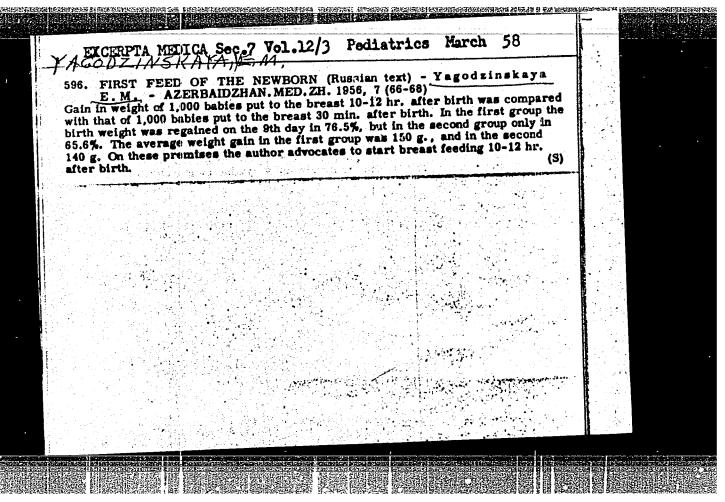
YAGODZINSKAYA, I.B. [IAhodzyns'ka, I.B.]				
From the history of severe winters in the Ukraine. Geog. zbir. no.6:85-90 '62. (MRA 15:9) (UkraineWinter)				
요. 보다 하는 경기에 되었다. 그는 사람들이 되었다. 그는 사람들이 되었다. 그는 사람들이 되었다. 경기를 보는 경기를 보고 있는 것이 없는 것이 되었다. 그는 사람들이 되었다. 그는 사람들이 되었다.				

YAGODZINSKAYA, Ye. M.

Yagodzinskaya, Ye. M. "Hypogalactia of mothers during wartime," Trudy Azerbaydzh. nauch.-issled. in-ta okhrany materinstva i mladenchestva i pedistr. kafedr Azerbaydzh. med. in-ta, Baku, 1949, p. 261-62, (In Russian and Azerbajani).

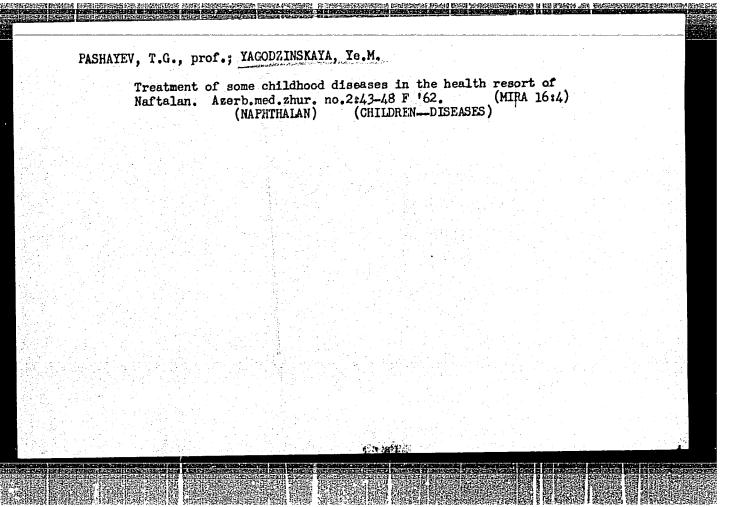
SO: U-3736, 21 May 53, (Letopis 'Zhurnal 'nykh Statey, No. 17, 1949).

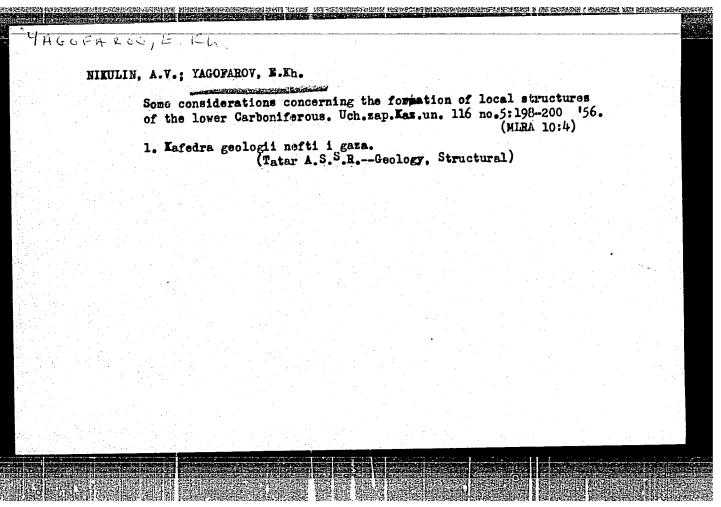


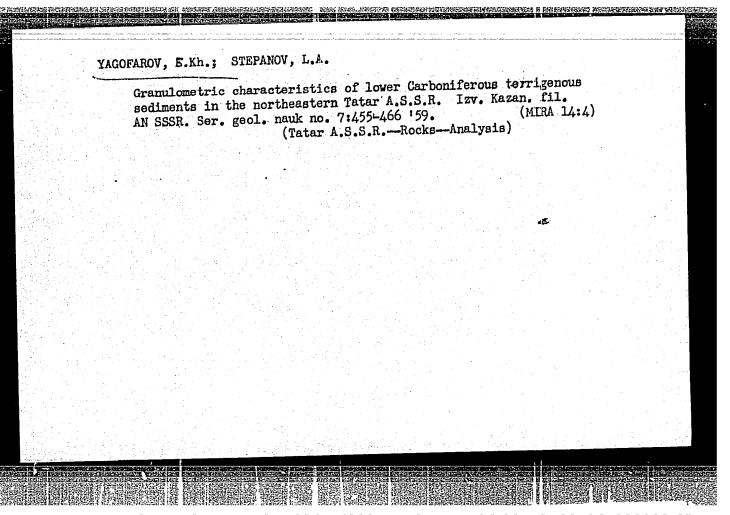


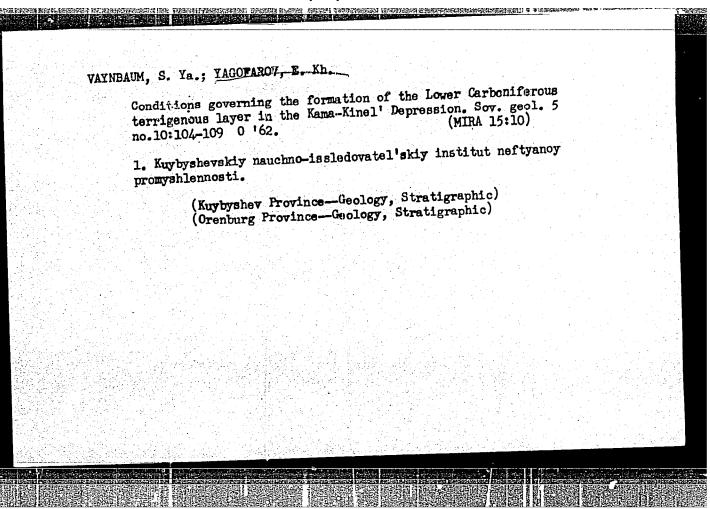
YAGODZINSKAYA, Ye. M., Cand Med Sci — (diss) "On the blood picture of newborn child." Baku, 1958. 15 pp (Azerbaydzhan State Med Inst im N. Narimanov), 200 copies (KL, 18-58, 104)

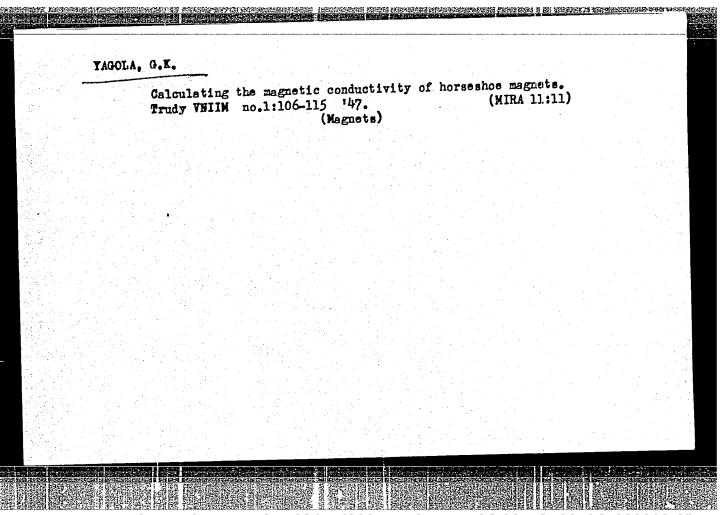
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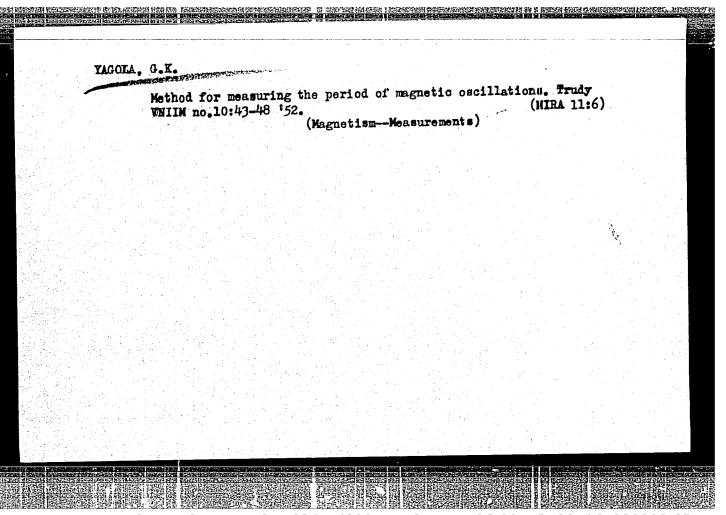










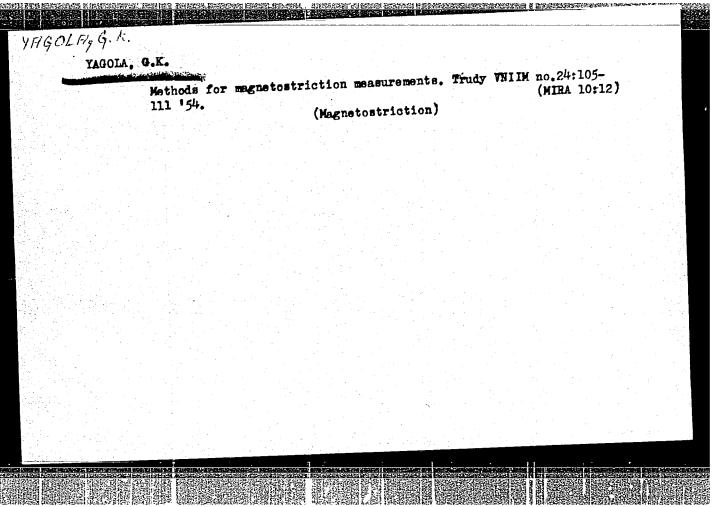


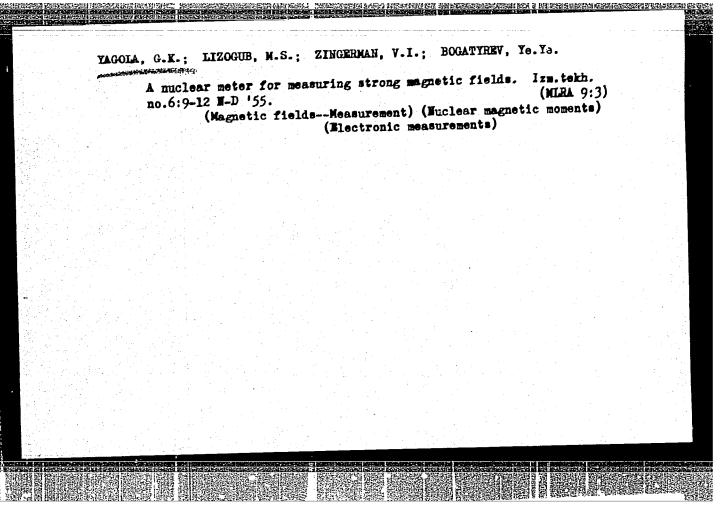
YAGOLA, G. K.

"Wattmeter Unit for Measuring Losses of Small Mass Specimens". Tr. Vses. n-i. in-ta Metrologii, No 24, pp 72-76, 1954

A wattmeter unit for testing the electrical quality of sheet-iron specimens of 2 kg mass was devised. The magnetizing part of the unit is built according to Dolivo-Dobrotolskiy-Epshteyn design. Formulas for computing of losses are derived. A particularly sensitive wattmeter is designed for measuring of low power. Tests of the magnetic laboratory VNIIM proved that resulting discrepancies of measurement at 10,000 and 15,000 gauss induction did not exceed 3%. (RZhFizn No 10, 1955)

SO: Sum No 812, 6 Feb 1956





YAGOLA, G.K.

112-3-6144

Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 3, p. 157 (USSR) Translation from:

Yagola, G.K., Rudnyy, N.M. AUTHOR:

Highly Sensitive Wattmeter for Measuring Losses in TITLE:

Magnetic Sheet Materials (Vysokochuvstvitel'nyy vattmetr dlya izmereniya poter' v listovykh magnitnykh materialakh)

PERIODICAL: Tr. Vses. n.-i. in-ta metrol, 1956, Nr 29 (89), pp.139-149

The construction of an electrodynamic low power-factor ABSTRACT:

wattmeter with a voltage measuring range of 30-75-150 v and a current measuring range of 2.5 - 5 a is described.

The 30-v range is not an auxiliary range, as in other wattmeters, but is used in normal operation. The rated

power factor is 0.1. The accuracy limit is 0.5. The instrument measures losses in an induction range of 0.5 to 1.7 mb /m2 in samples weighing 1-2 and 10 kg at a frequency of 50 cps. The wattmeter is provided with a

luminous indicator. The shielding employed is effective

in keeping the error caused by external magnetic fields Card 1/2

112-3-6144 Highly Sensitive Wattmeter for Measuring Losses in Magnetic Sheet Materials (Cont.)

with an intensity of up to 0.5 oersteds below 0.05% of the upper limit of measurement. Research has shown that under normal conditions electromagnetic interaction of the movable part of the instrument and the field of the stationary coils (due to the presence of traces of ferromagnetic substances in the components of the movable part) causes a deflection of the latter not exceeding 0.1% of the scale length. For calibrating the wattmeter or for d-c measurements, the current must be one-tenth of the rated current, since the wattmeter is designed for $\cos \varphi = 0.1$; in this case, the error due to residual magnetization of the shield by the field of the stationary coils does not exceed 0.05%. The error due to inductance of the movable coil is kept below 0.5% by a compensating circuit. The error due to mutual inductance of the coils is not greater than 0.13%. The wattmeter is suitable for measuring losses in samples of sheet steel used in the electrical industry.

Card 2/2

G.L.G.

A001/A001

9,6000 (and 1013, 1160)

Translation from: Referativnyy zhurnal, Fizika, 1961, No. 3, p. 346, # 3E516

Yagola, G. K., Lizogub, M. S. AUTHORS:

Reproduction of Intensity Unit of Magnetic Fields by the Nuclear TITLE:

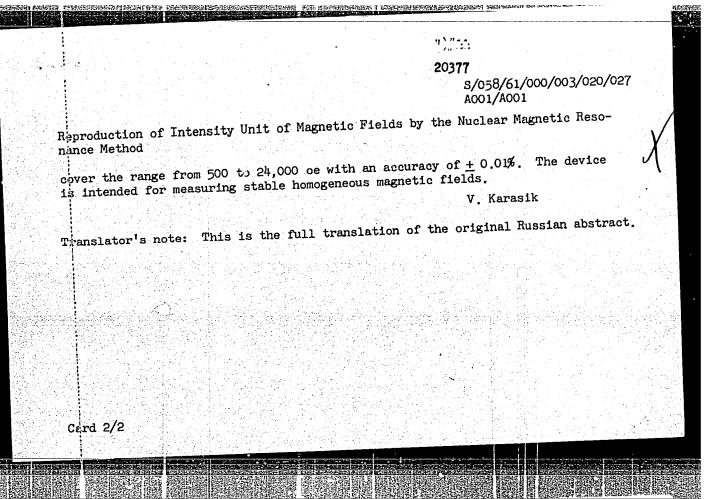
Magnetic Resonance Method

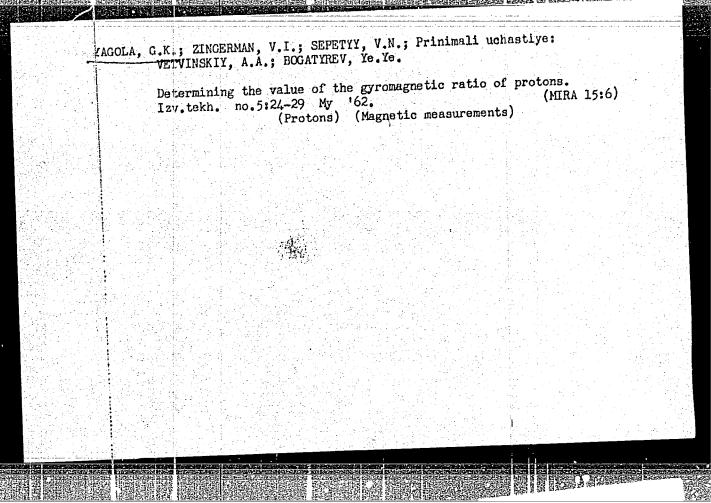
"Tr. Konferentsii po elektr. izmereniyam i priborostr.", Kiyev, PERIODICAL:

AN UkrSSR, 1959, pp. 61-67

The authors designed a standard device for measuring intensity of magnetic fields by the nuclear magnetic resonance method. The device is a high-TEXT: frequency oscillator whose coil of oscillation circuit is made in the form of a probe. Osciallation amplitude of the oscillator is set close to oscillation failure. To obtain the resonance line, the magnetic field being measured is modulated at a frequency of 50 cps. The amplitude of variable component is 0.05-1 oe. Possibility of frequency modulation is provided for. Nuclear magnetic resonance is observed on the mixture of plain and heavy water with addition of a small quantity of Mn sulfate. The use of three changeable probes makes it possible to

Card 1/2





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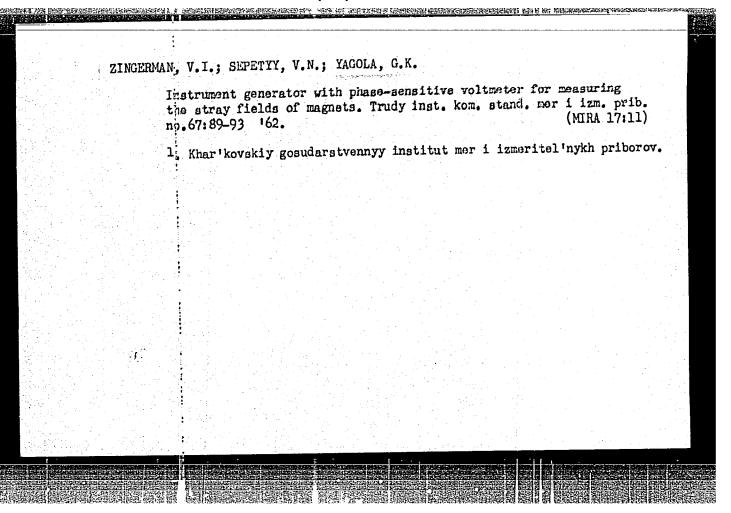
CIA-RDP86-00513R001961820002-2 "APPROVED FOR RELEASE: 03/14/2001 YAGOLA, G.K. 5/185/62/007/002/004/016 D299/D302 Yahola, H.K., and Bohatyr'ov, Ye.Ye. Determining paramagnetic resonance frequency ratio of 5.5450 AUTHORS: lithium nuclei and protons Ukrayins'kiy fizychnyy zhurnal, v. 7, no. 2, 1962, TITLE: TEXT: The paramagnetic resonance-frequency ratio f_ii7/fp was de-PERIODICAL: termined by a method which is simple and eliminates the effect of instabilities of the magnetic field and of other factors. The spening of the magnetic field and of other factors. cimen used was a concentrated aqueous solution of LiCl with an addition of O 15 M Page - 25 Concentrated aqueous solution of LiCl with an addition of O 15 M Page - 25 Concentrated aqueous solution of D 15 M Page - 25 Concentrated aqueous solution of LiCl with an addition of O 15 M Page - 25 Concentrated aqueous solution of LiCl with an addition of O 15 M Page - 25 Concentrated aqueous solution of LiCl with an addition of LiCl with a district of LiCl with a cimen used was a concentrated aqueous solution of hit with an addition of 0.15 M FeCl3 as a paramagnetic catalyzer. The specimen distinct of 0.15 M FeCl3 as a paramagnetic catalyzer and 3 mm in distinct of 0.15 M FeCl3 as a paramagnetic catalyzer. The specimen was kept in a thinwalled glass container 25 mm long and 3 mm in distinct of the measuring device was mater. meter: The authodyne detector coil of the measuring device was wound directly on the container. The resonance of the lithium nuclei and protons was observed on one and the same specimen; thereby the autodyne detector could be timed to gither the resonance. crei and protons was observed on one and the same specimen; thereby the autodyne detector could be tuned to either the resonance frequency of lithium nuclei or to that of the protons. The measure-

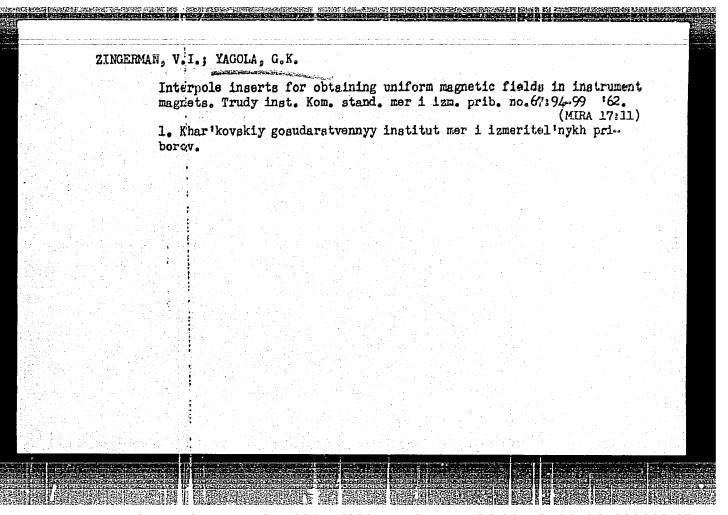
APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820002-2"

Card 1/3

s/185/62/007/002/004/016 D299/D302 Determining paramagnetic resonance .. ments were conducted in a permanent magnetic field $H_0 = 2350$ oersted ($f_p = 10$ Mcycles, $f_{Li}\gamma = 3.9$ Mcycles). The inhomogeneity of the magnetic field inside the specimen, did not exceed 0.05 oersted. The frequency was measured by the electronic frequency meter 43-1 (ChE-1). In order to take into account the drift of the magnetic field-strength, the measurements were made at equal time intervals, whereby the resonance frequencies of the nuclei and of the protons were measured alternatively, one after another. The mean value of the frequency ratio, obtained from a series of 10 measurements, was $f_{Li}^{7}/f_{p} = 0.3886357 + 0.0000016$, which is in good agreement with the results of other investigators. There are 3 tables and 7 references: 1 Soviet-bloc and 6 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: W.C. Dickinson, Phys. Rev., 81, 717, 1951; F. Bitter, Phys. Rev., 75, 1326, 1949; Siegbahn, G. Lindstrom, Nature, 163, 211, 1949; T. Kanda, Y. Masuda, R. Kusaka, Y. Yamagata, J. Itoh, Phys. Rev., 85, 938, 1952. Card 2/3

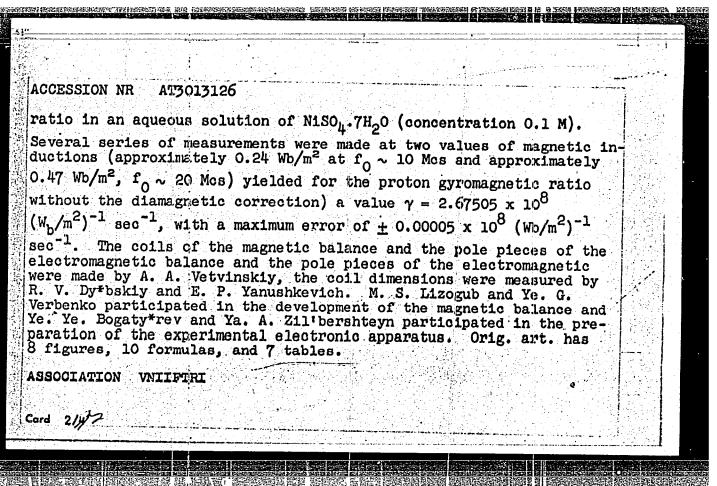
<u> </u>	新一张,我们是他们开发的时候,我们就没有什么证明的。 10 年 40 年 10 年 40 年 10 年 10 年 10 年 10 年
are the contact of the terms.	
Determining	S/185/62/007/002/004/016 paramagnetic resonance D299/D302
	1299/1302
ASSOCIATION	Kharkivs'kyy derzhavnyy instytut mir ta vymiryuval'- nykh pryladiv (Kharkiv State Institute of Measures and Measuring Instruments)
	nykh pryladiy (Kharkiy Stote Tretit ta vymiryuval'-
	Measuring Instruments)
SUBMITTED:	April 3, 1961
[평양기 : 기계 : 10] 10] [1	
얼마나 그 아이는 얼마 그는	
	선 문자들이 여름을 받아 있다면서 불만하는 사람이 없는 이 모든 사람이다.
불편하다는 하는 불로 되었다.	
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돌통 경찰 () 하고 모든 등 하고 있다.	
	생활에 즐겁는 내가 1명하는 이 사용에 가는 경기를 받는 것이 되었다. 그는 그는 그를 받는 것이다. 생활한 경기를 하는 것이 있는 것이 되었다.
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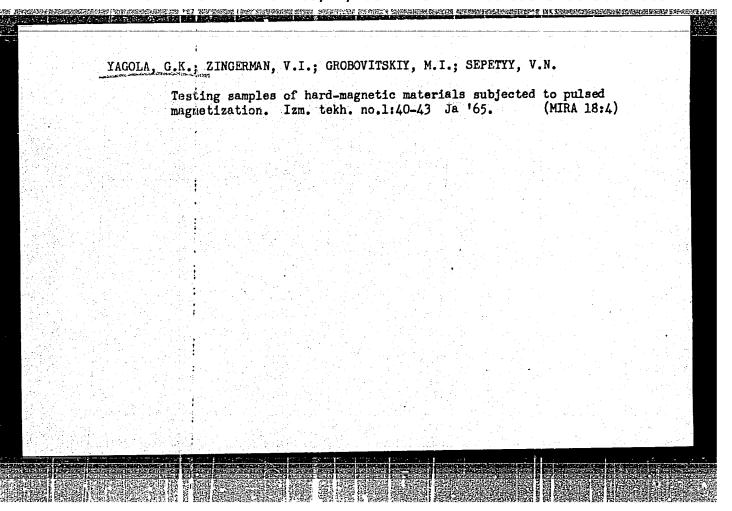




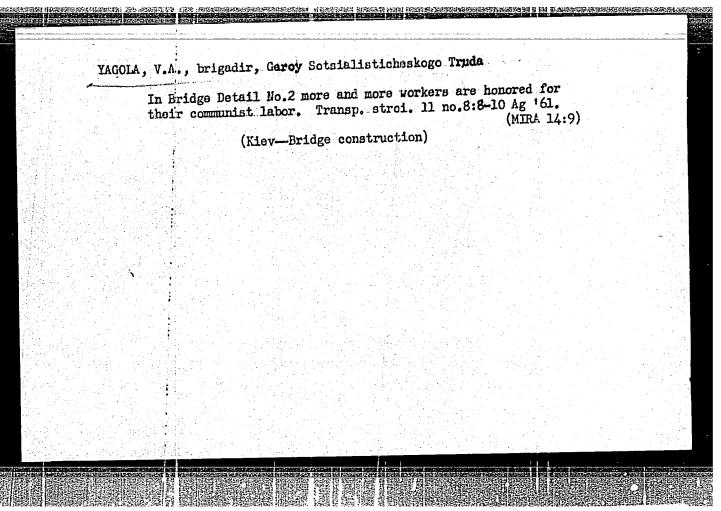
SEPETYY,	V.N.; YAGOLA, G.K.			
	introduction of we	c induction in the magne ak-magnetic parts of mea h. no.10:47-52 0 '63.	t gap caused by the suring devices into (MIRA 16:12)	

				- (
ACCESSION NR	AT3C13126	S/	/2589/63/000/07	2/0017/0038	
AUTHOR Zinge	erman, V. I. Se	pety*y, V. N.	agola, G. K.		
ton in strong	ute determinati magnetic field				
	. Komitet stan utov Komiteta,	darkov. mer 1	lzmeritel'ny*kh 17-38	priborov.	
TOPIC TAGS netic ratio m	gyromagnetic ra easurement, nic	tio, proton gy kel sulfate so	romagnetic rati lution		
ABSTRACT Apmagnetic fiel the measurement balance, and balance have cedure and the down the National American Strategies of the National Am	paratus consisted stabilized by ant of the distrapparatus for modern developed ne apparatus are tional Bureau of est Germany, and apparatus was	ing of an electronic proton magnet ribution of the measuring the cat KhGIMIP. It is better than it standards and	tromagnetic will c resonance, magnetic field urrent in the t is claimed t n similar equi the Physicote	d, a magnetic coil of the hat the pro- pment develo chnical In- more compre-	p-
Card 1/47					





ATODAY	V.A., geroy Sotsialisticheskogo Truda.	
	Operational experience in constructing preassembled bridges. (HIRA 12:1) Transp. stroi. 8 no.11:5 N '58. (Bridge construction)	:
	(bridge constitution)	
	기를 하시고 하시아를 통해 보이고 있다. 그런 일이 생각하는 이 이어 하는 것이 되었다. 공연물 하시는 사람들이 하는 것이 사람들이 되었다.	
	이 프로그램은 전 경영을 보고 생물이 되었다. 이 경영을 보고 있는데 이 이 보고 있는데 되었다. 연방 및 현물의 전에 대한 경영을 보고 한 경영을 보고 있습니다.	
	가 있는 것이 되었다. 그는 것이 함께 가게 되는 것이 되었다. 그는 것이 되었다. 그는 것이 되었다. 지원하는 것이 되었다. 사람들은 소리를 보면 되었다. 그는 것이 되었다.	
	가 물을 보고 있는 이 물로 가격하는 것이 있는 그리고 있는 것이 되었다. 그런 그런 가장 보고 있는 것이 가장 되었다. 사용물 사용 기업을 보고 있는 것이 없는 것이 되었다. 그런 것이 되었다는 것은 것은 것이 되었다. 그런 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 그런 것이 없는 것이 없는 것이 없는 사용물 사용 기업을 보고 있는 것이 없는 것이 되었다.	
	역사를 보고하고 가고 현대로 보자 그로도 2012년 1일 기본이 모르는 보고 보고 보고 하는데 보고 있다. 과 기를 보고 있는 것 같은 것은 것이 되는데 되었다면 하는데 하는데 보고 있는데 되었다.	
	하지를 하는 것이 되는 것으로 가는 것이 되는 것이 되었습니다. 그런 그런 그는 것이 되는 것이 되었습니다. 생물을 하고 있는 것이 되는 것을 것 같습니다. 그런	



			and the spirit
ACCESSION NR: AP4035	699	s/0057/G4/034,	/005/08 73 /08 7 8
AUTHOR: Pasechnik, L	.L.; Kozak, O.V.; Yag	ola, V.V.	
TITLE: Magnetic con	finement of a dense c	urrent-carrying plasma	
SOURCE: Zhurnal tekh	nicheskoy fiziki, v.3	34, no.5, 1964, 873-878	
TOPIC TAGS: plasma, plasma confinement,	plasma filament, dens plasma diffusion, amb	e plasma, plasma confineme dipolar diffusion, holium p	nt, magnetic lasma
density up to 10 ³ A/or loss. The gas prothe radial density distributions were of the diffusion theory less than 3 kOc. The sand acceptance as here	ol mm lig. The plasma cm ² and was located is sure and longitudina istribution in the plasma compared with calculate accounted adequately accounted adequately accounted accounts we tungaten cathods at tungaten cathods as	sma filaments were formed if filament carried a current in a longitudinal magnetic all magnetic field strength insma filament was measured tions based on ambipolar diversity for the observations in more formed in a tube 8 cm in det one end and a cold anode a cathode was overheated for the strength of the carried in a tube 8 cm in detections in the carried and a cold anode a cathode was overheated for the carried in the car	field of 7 kOc were varied, and . The density ffusion theory. agnetic fields immerand 80 cm at the other.At
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	ne Comment of the Com		1

ACCESSION NR: AP4035699

and a capacitor was discharged through the tube, thus producing a preliminary ioni zation of the gas. A 5-millisec pulse was then applied to the magnet winding, producing the longitudinal magnetic field. After a delay of 1 to 1.5 millisec, giving the magnetic field time to reach a nearly constant value, a 3-millisec rectangular pulse was applied to the discharge tube, producing the plasma filament. The density of the plasma was determined with a Langmuir probe. There is some discussion of the applicability of Bohm's formula to the present conditions, in which the ion Larmor radius is less than the radius of the probe, but it is concluded that relative densities in different parts of the plasma should be given with adequate accuracy. The electron temperature was determined from the intensity ratio of He II 4686 Å to He I 4713 Å lines; it was found to be 5 eV. The highest plasma density observed was 5×10^{14} cm⁻³, and the ionization is said to have reached 100%. The plasma density decreased rapidly with increasing distance from the axis of the tube; the rate of decrease was greater for stronger magnetic fields. In a 4.4 kOc field the density fell to half its axial value at 8 mm from the axis, and to one-tenth its axial value at 23 mm. The steady-state relation between density and radius was calculated from the theory of ambipolar diffusion, with recombination taken into account. Bessel's equation of zero order is derived for the square of the density (this equation was also obtained by N.Rynn and N.D'Angello (Rov.Sci.Instr.31,1326,1960)), and the

Card

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ACCESSION NR: AP4035699

solutions were fitted to the experimental curves. Good fits were obtained for radii between 1 and 3 cm. This is not astonishing, since there are three disposable parameters (two constants of integration and a parameter β that is theoretically proportional to the magnetic field and to the square root of the recombination coefficient). The values of β that gave the best fit were found to be in fact proportional to the magnetic field for field strengths less than 3 kOe. The value thus obtained for the recombination coefficient is 3.9 x 10⁻¹¹ cm³/sec; this value is of the same order of magnitude as the values obtained by others (E.Hinnow and J.E.Hirtsberg, Phys.Rev.125,795,1962; Yu.M.Aleskovskiy and V.L.Granovskiy,ZhETF 43,1253,1962), and it is concluded that diffusion accounts for the behavior of the filaments in fields up to 3 kOe. In stronger fields, some dispersing mechanism in addition to diffusion must become important. Orig.art.has: 8 formulas, 5 figures and 1 table.

ASSOCIATION: Institut fiziki AN UkrSSR, Kiev (Institute of Physics, AN UkrSSR)

SUBMITTED: 10May63

ATD PRESS: 3082

ENCL: 00

SUB CODE: ME

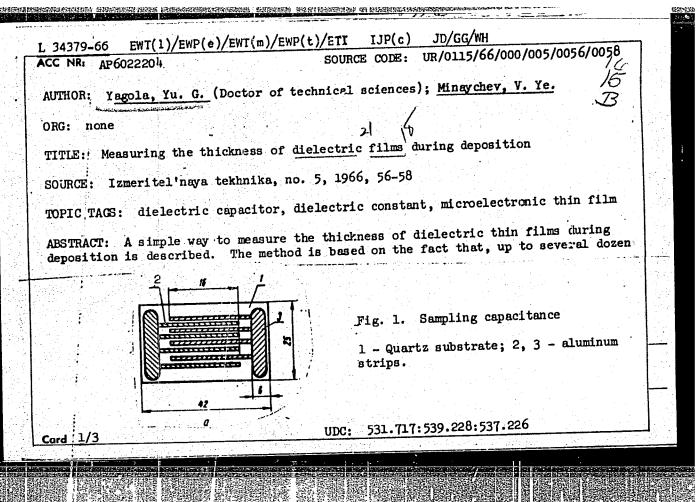
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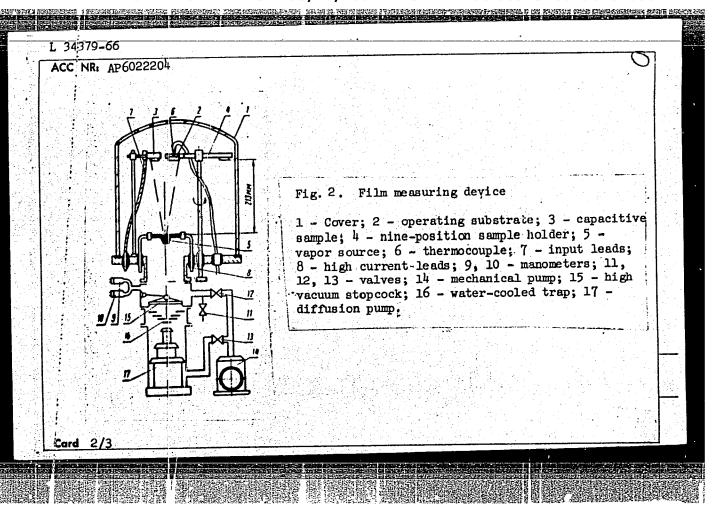
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Card 3/3

APPROVED FOR RELEASE: 03/14/2001

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L 34379-66

ACC NR: AP6022204

microns, the thickness of the film is practically a linear function of its dielectric constant ϵ . Thus, by using a film sample as a capacitance dielectric and observing the change in ϵ during deposition, the authors obtain a continuous readout calibrated in microns. Fig. 1 details the sampling capacitance and Fig. 2 shows the test apparatus. To minimize temperature error, quartz was used as the sample substrate.

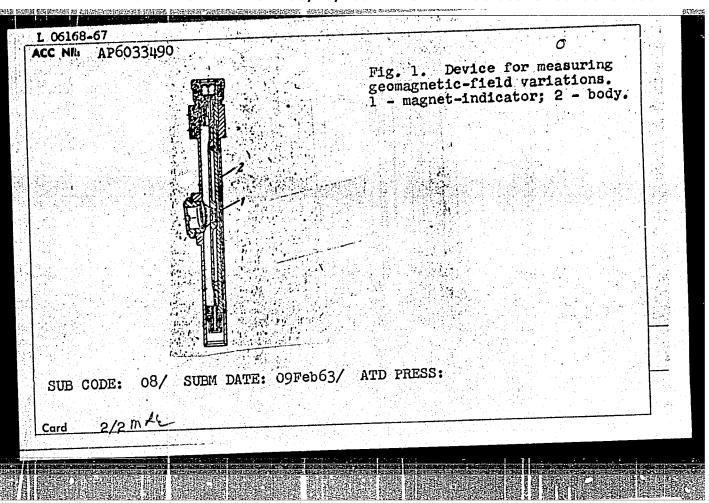
	Dielectric	Deposit rate, µ/sec	Temp.	Recording sensitivity, pf/µ	Calibration limit of film thickness, µ
- !	SiO	(1+5) - 10-3	200	0,27	30
	SbS3	(1+20) · 10 ⁻³	20	0.83	30
	Chalcogenide	(0.5+20)· 10 ⁻³	20	0.33	50

The original calibration of the device was made against standard interferometer readings of film thickness; this step accounted for most of the error (*6%) of the technique. The overall accuracy, within measured capacity limits of 0.1 to 50 pf, is estimated at *8—10%. The results of tests on three dielectrics are given in the table. Orig. art. has: 3 figures, 3 formulas and 1 table.

SUB CODE: 14, 09/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 002/ ATD PRESS:

4 06168-67 EWT(1)/FCC GW
ACC NR: AP6033490 SOURCE CODE: UR/0413/66/000/018/01.1/0111
INVENTOR: Yagorov, Yu. M.; Alekseyev, A. M.; Lantsov, A. Ye. ORG: none TITIE: Device for measuring variations of the geomagnetic field Class 42, No. 186153 /announced by All-Union Scientific-Research Institute of Geophysical Methods of Prospecting (Vsescyuznyy nauchno-issledovatel skiy institut geofizicheskikh metodov razvedki)/ SOURCE: Izobret prom obraz tov zn, no. 18, 1966; 111 TOPIC TAGS: geomagnetic field, magnetostatic transmitter, transmission ability, magnetic moment, inertia moment, silicon oil, Geophysical Nasraument ABSTRACT: A device for measurements of geomagnetic-field variations has been designed and built (see Fig. 1). This instrument has a magnetostatic transmitter whose magnet-indicator is plate-shaped and made of a hard magnetic material. Its transmission ability is higher, and noises in the instrument are damped. The ratio of the magnetic moment of the magnet to its inertia moment is very important for keeping the optimum value of the magnetic moment; therefore, the magnet is put into a closed vessel filled with silicon oil. Orig. art. has: 1 figure
Gord 1/2 UDC: 550.838

"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001961820002-2



GEL SHTEYN, V.I.; YAGORSKAYA, T.A.

Effect of ortoaminoazotoluene on explanted normal mouse liver and on transplanted hepatomas. Vop. onk. 10 no.9:58-65 64. (MIRA 18:4)

1. Iz laboratorii mekhanizmov kantserogeneza (zav. - doktor med. nauk Yu.M.Vasil'yev) otdela po izucheniyu kantserogennykh agentov (zav. - deystvitel'nyy chlen AMN SSSR prof. L.M.Shabad) Instituta eksperimental'noy i klinicheskoy onkologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. N.N.Blokhin). Adres (vir. - deystvitel'nyy chlen AMN SSSR prof. N.N.Blokhin). Adres avtorov: Moskva, I-110, ul. Shchepkina, 61/2, korpus 9, Institut eksperimental'noy i klinicheskoy onkologii AMN SSSR.

GEL'SHTEYN, V.I.; YAGORSKAYA, T.A.

Study of a simplified antigen structure in mice liver during early periods of cancerogenesis with the use of analytical immuno-electrophoresis. Biul. eksp. biol. i med. 57 no. 2:90-93 F '64. (MIRA 17:9)

1. Laboratoriya khimicheskikh kantserogennykh veshchestv (zav.doktor med. nauk Yu. M. Vasil'yev) otdela kantserogennykh agentov
(zav. - deystvitel'nyy chlen AMN SSSR prof. L.M.Shabad) Instituta
eksperimental'noy i klinicheskoy onkologii (dir. - deystvitel'nyy
chlen AMN SSSR prof. N.N.Blokhin) AMN SSSR. Predstavleno
deystvitel'nym chlenom AMN SSSR L.M.Shabadom.

1AGOSH

Food Industry.

POLAND / Chemical Technology.

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Author : Yagosh

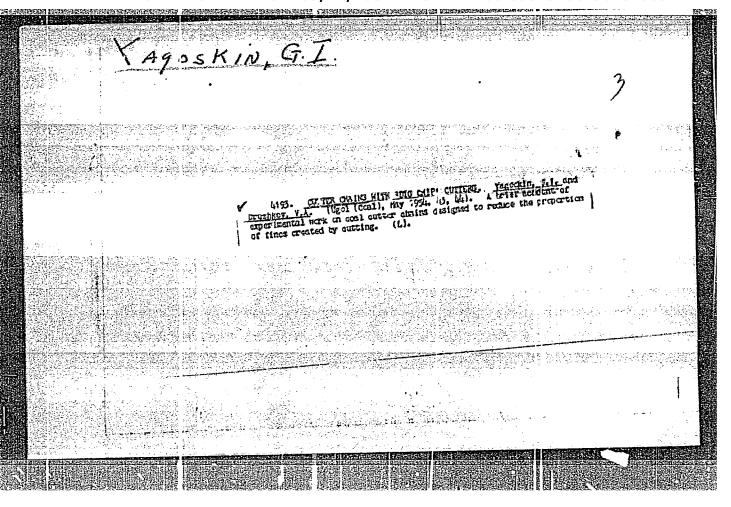
: The Production of Emmenthaler Cheese From Pas-Inst

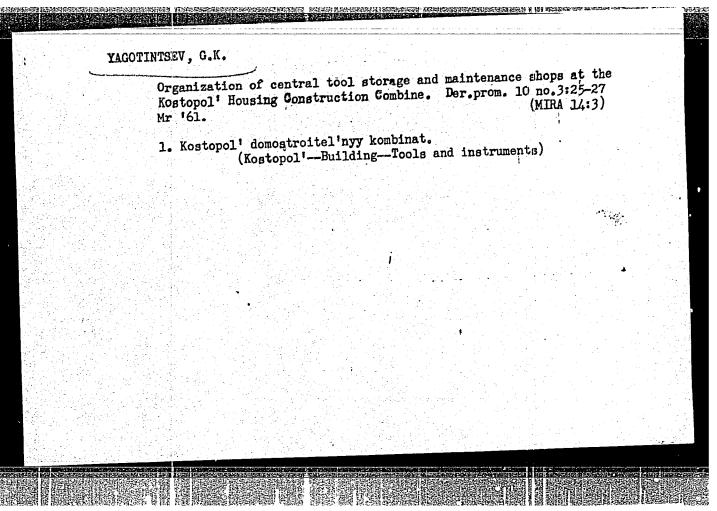
teurized Milk.
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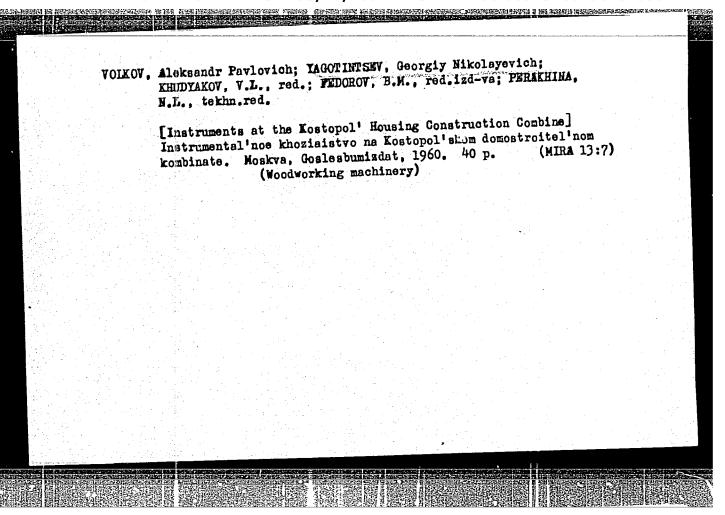
Abstract: The preparation of Emmenthaler cheese from pasteurized milk requires certain changes in the technological process and foremost the use of various ferments. The latter are introduced in an amount from 0.01 to 0.15%, depending on the an amount from U.U. to U.IUM, depending on one acidity of the milk, and consists of cultures of lactic strptococci and rod-shaped bacterias of lactic strptococci and rod-shaped bacterias in a ratio of 1:1, or of the same cultures with in a ratio of 1:1, or of the same cultures with the addition of butter ferments in the ratio of

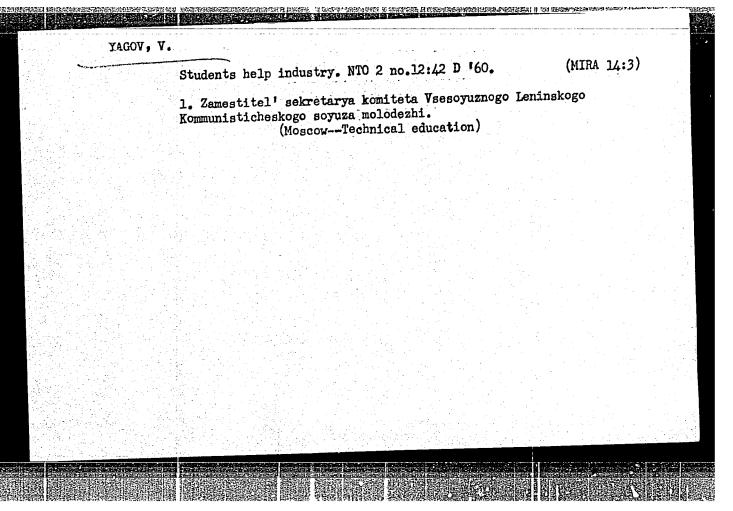
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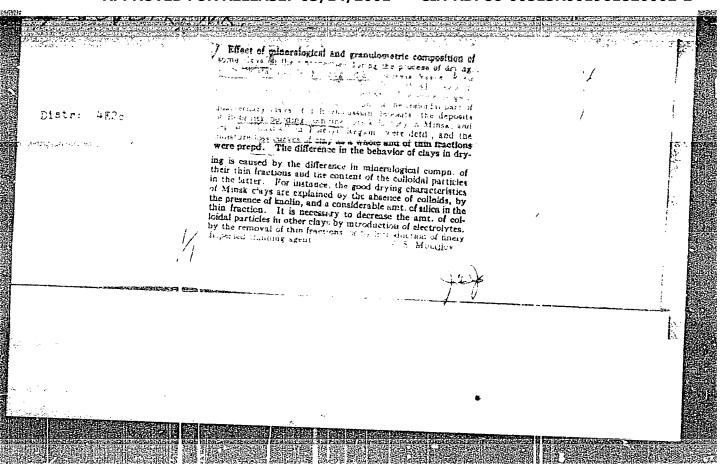








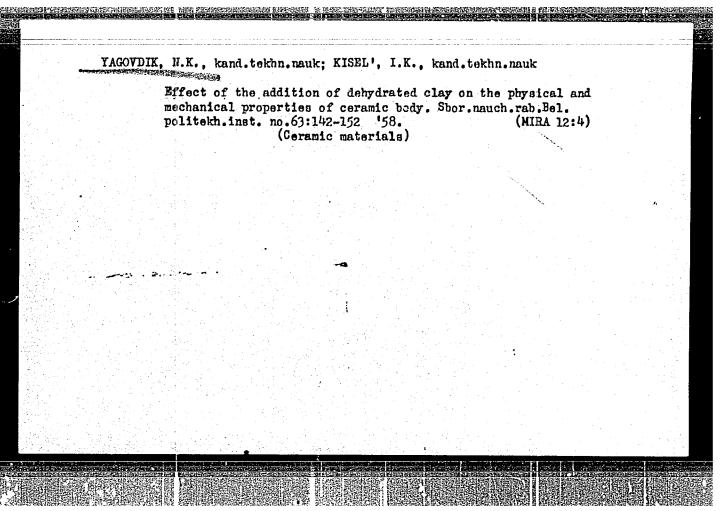
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YAGOVDIK, N.	USUR/Physics (Contd.) 1iquid phase at normal and higher temperatures; there is a limit to this increase, beyond which the product's load resistance drops sharply. Submitted by Acad D. S. Belyankin 13 Sep 48. 55/491106	Nor us Refractories Refractories A Study of the Effect of the Liquid Stage on the Melhanical Durability of Fire-Clay Refractories at Tarious Temperatures by the Method of Comparison, T., Yagordir, Relocussian Polytech Inst, Minsk, in pp Dok Ak Nauk SSMT Vol LXIII, No 2 Took Ak Nauk SSMT Vol LXIII, No 2 Concludes: absence of a liquid phase impairs definited durability depends on grammlometric semiconstition, and increases with increase in the composition, and increases with increase in the	



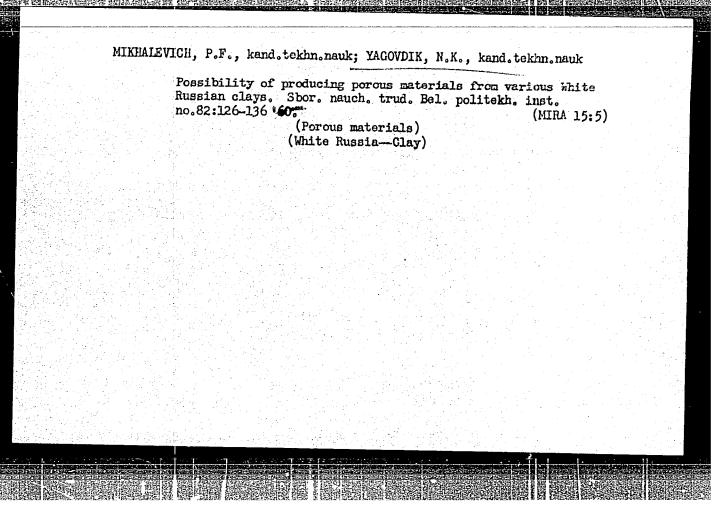
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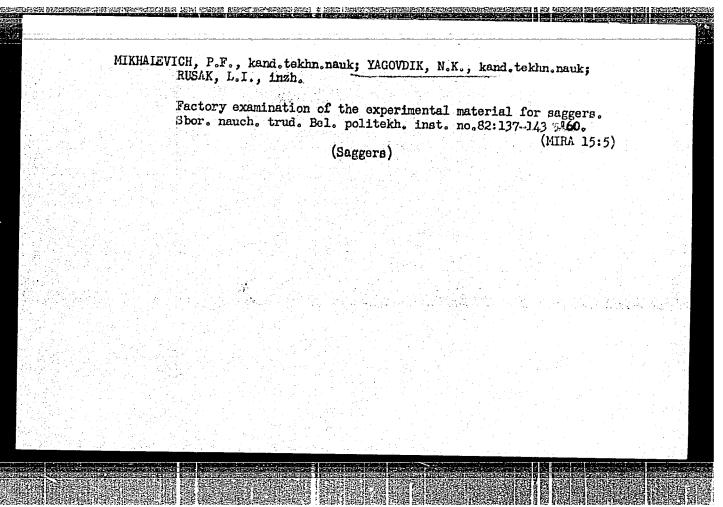
Investigating the effect of several additives on the improving
of physical and mechanical properties of saggers used by the
Minsk Porcelatin and Glazed Pottery Factory. Sbor.nauch.rab.Bel.
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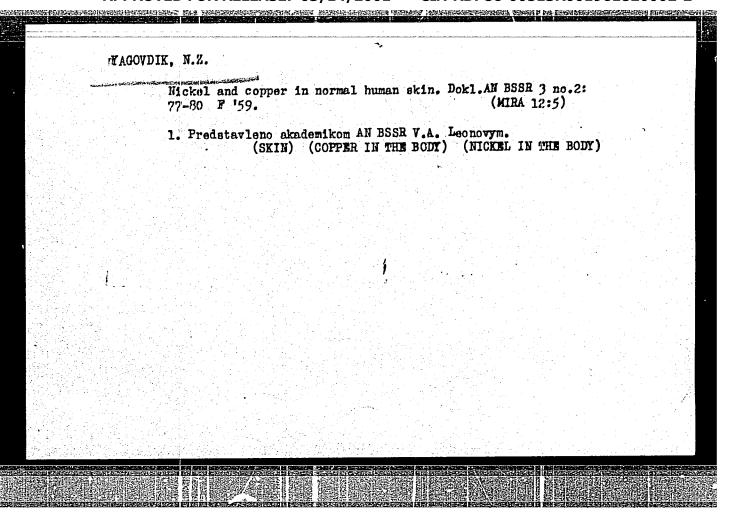




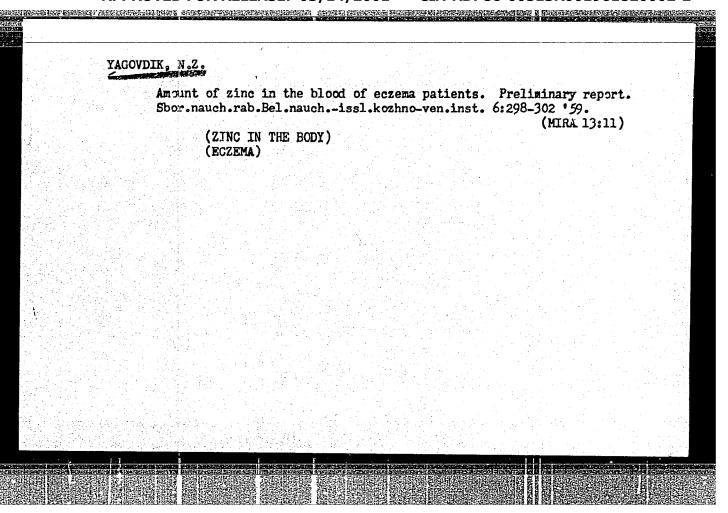
AKHVERDOV, I.N.; YAGOVDIK, N.K.

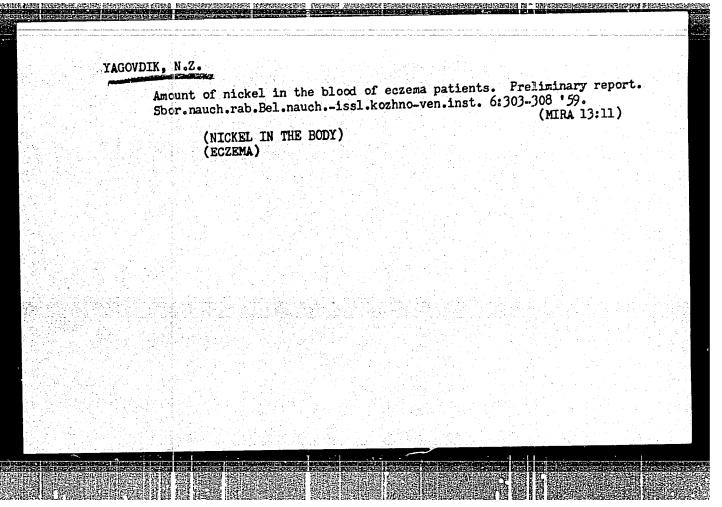
Effect of high temperatures on the physicomechanical properties of cement. Inzh.-fiz. zhur. 7 no.8:108-113 Ag '64. (MRA 17:10)

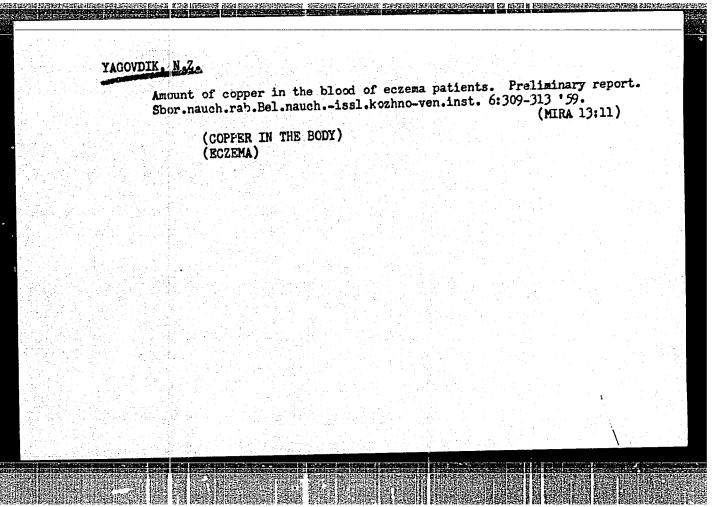
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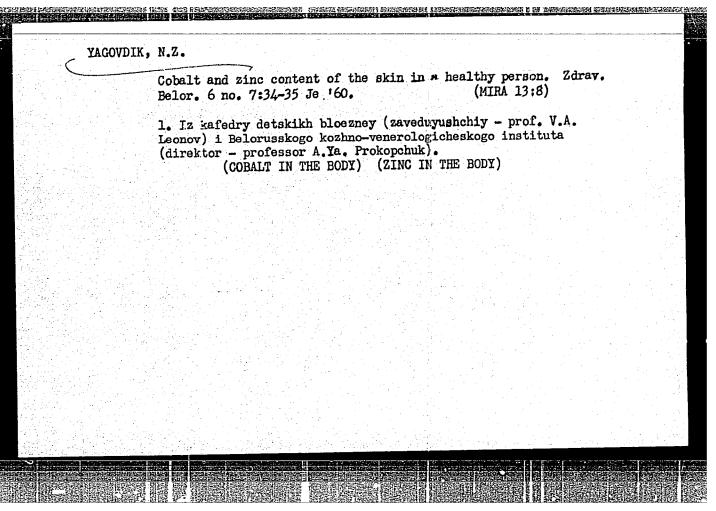


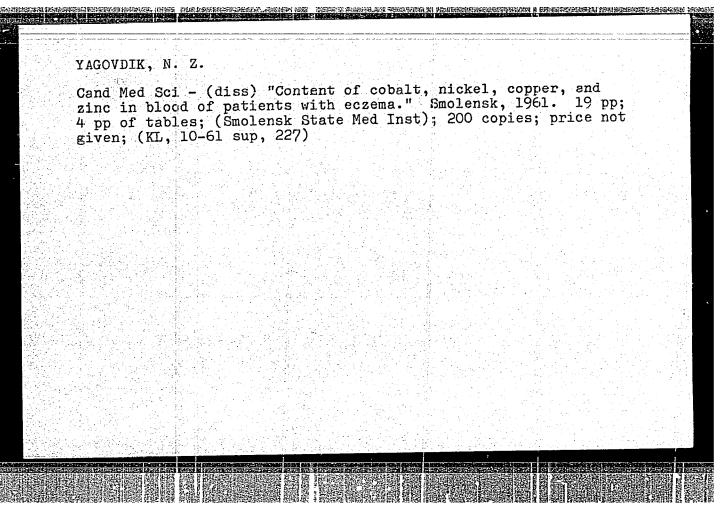
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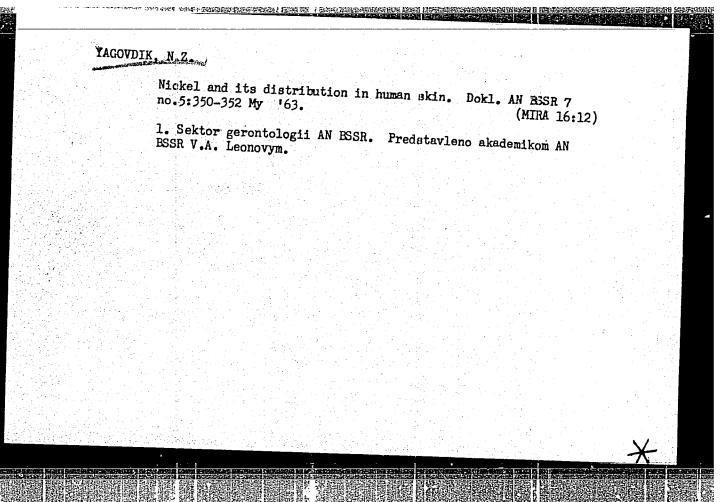






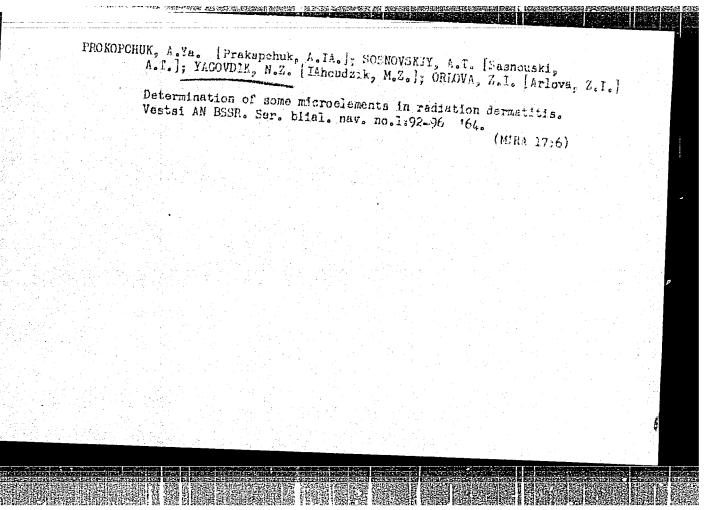


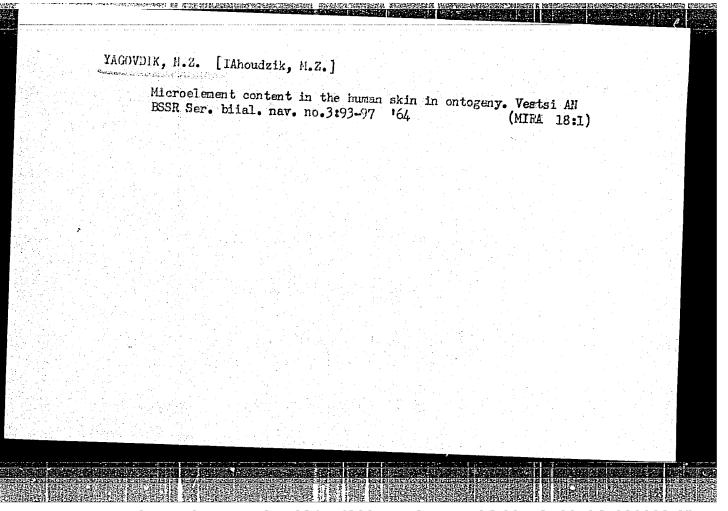


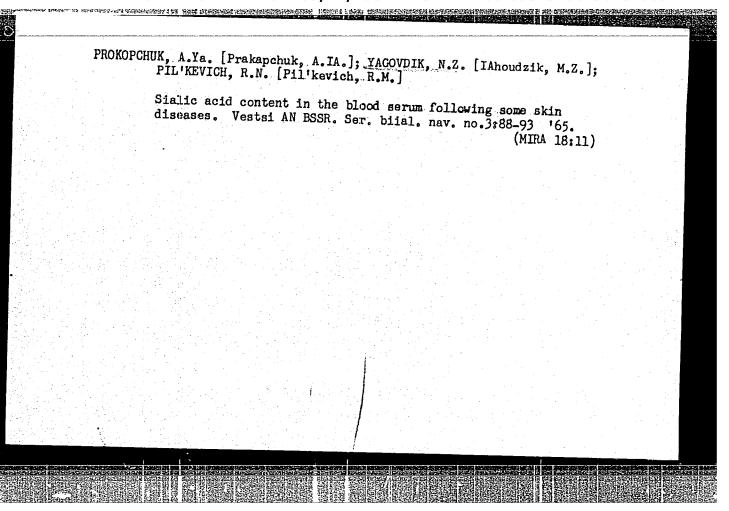


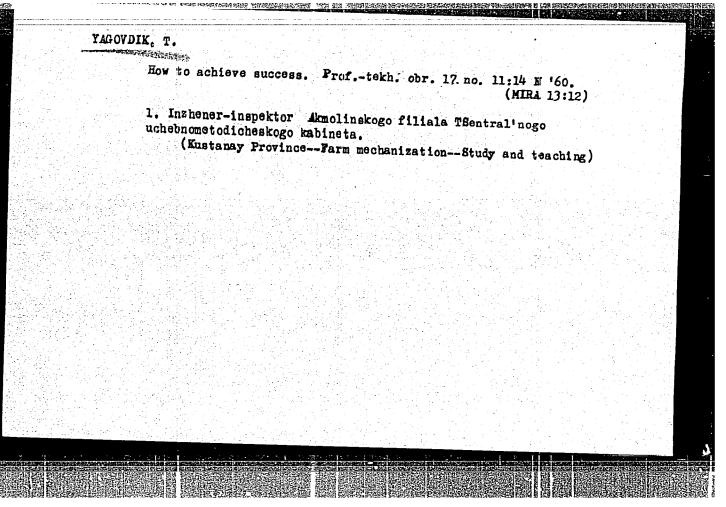
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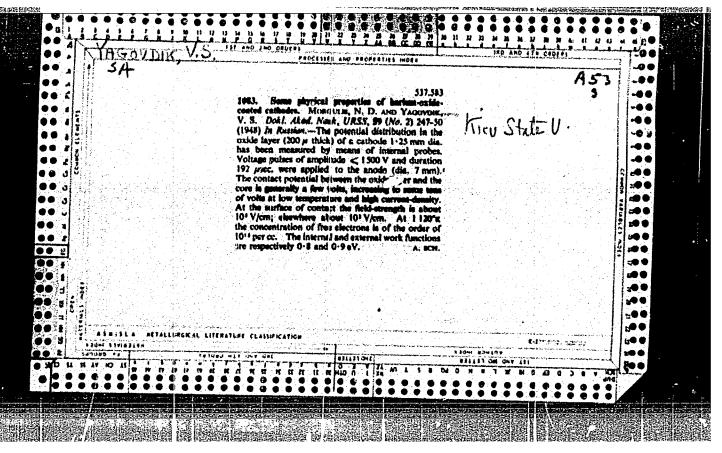
SOSNOVSKIY, A.T.; ORLOVA, Z.I.; YAGOVDIK, N.Z. (Minsk) Cobalt and nickel in radiation dermatitis. Vrach. delo no.9: 155-156-3153. (MIRA 16:10) 1. Beffrusskiy nauchno-issledovatel skiy kozhno-venerologi-cheskiy institut. (SKIN — DISEASES) (CORALT IN THE BODY) (NICKEL IN THE BODY) (RADIATION — PHYSIOLOGICAL EFFECT)











TAGCVDIK, V. S.

D-2 YAGOVDIK, V. S. Muzhna soglasovannost' kursov fiziki i obshchey elektrotekhniki (The need to coordinate the courses of physics and general electrical engineering). In; Vestnik vysshey shkoly (Moscow), 9:45-46, 1951. DLC L51.V42; ...

Concrete suggesti ns for changes in the methodology of physics courses taught at higher technical schools in view of the basic and preparatory nature of physics with regard to technical courses.

